

Session 1-1

Integrating EA with Management and Governance Practices

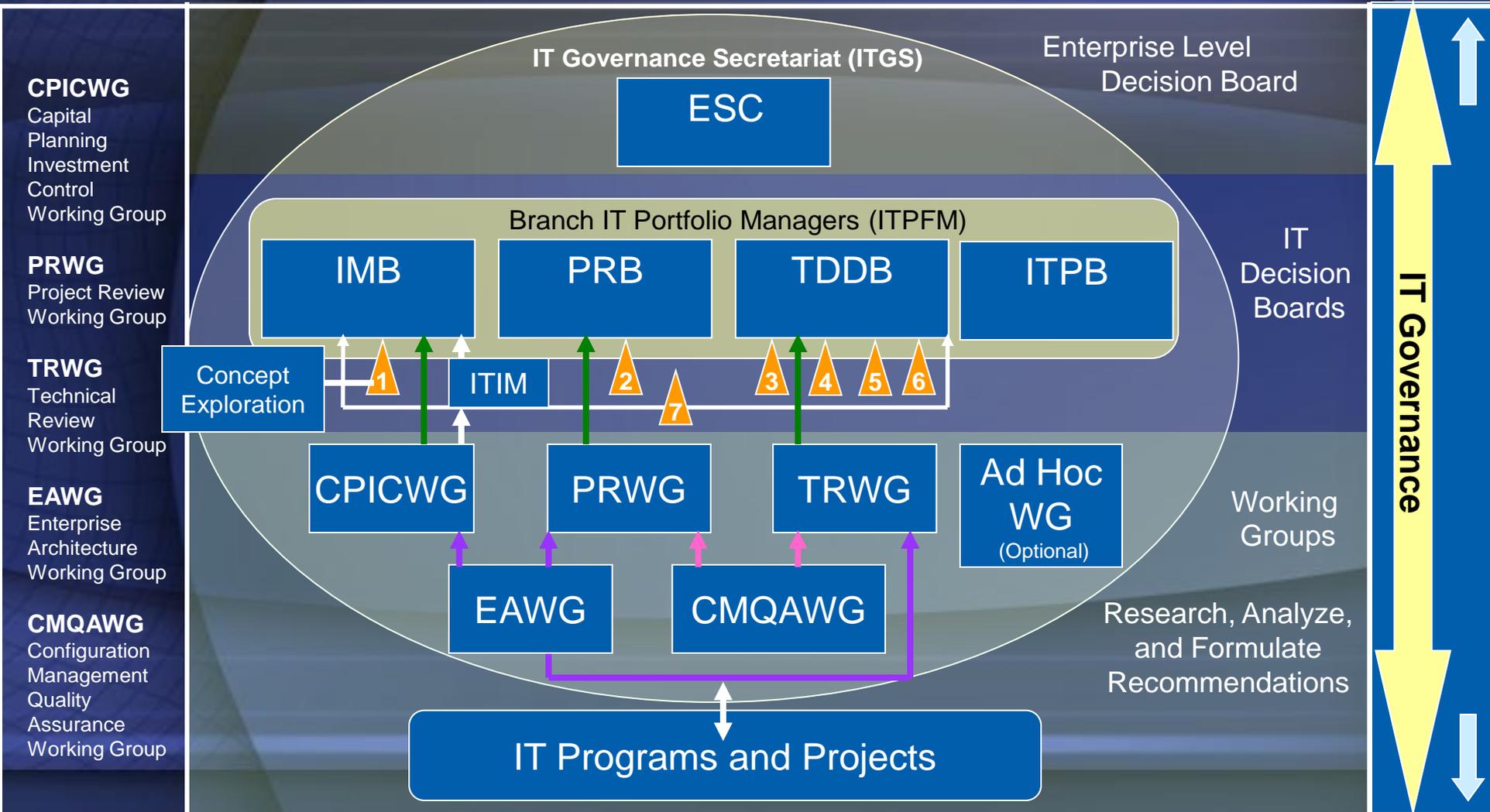
Sanjeev “Sonny” Bhagowalia*
Chief Information Officer (CIO)
Bureau of Indian Affairs,
Department of the Interior

2007 E-Gov Conference
Washington, DC
September 5, 2007

* Former Program Management Executive, FBI (8/2007)

Q1: What EA policies help support integration with “other” agency management processes?

*1st habit of highly effective architects: *“Be proactive”*

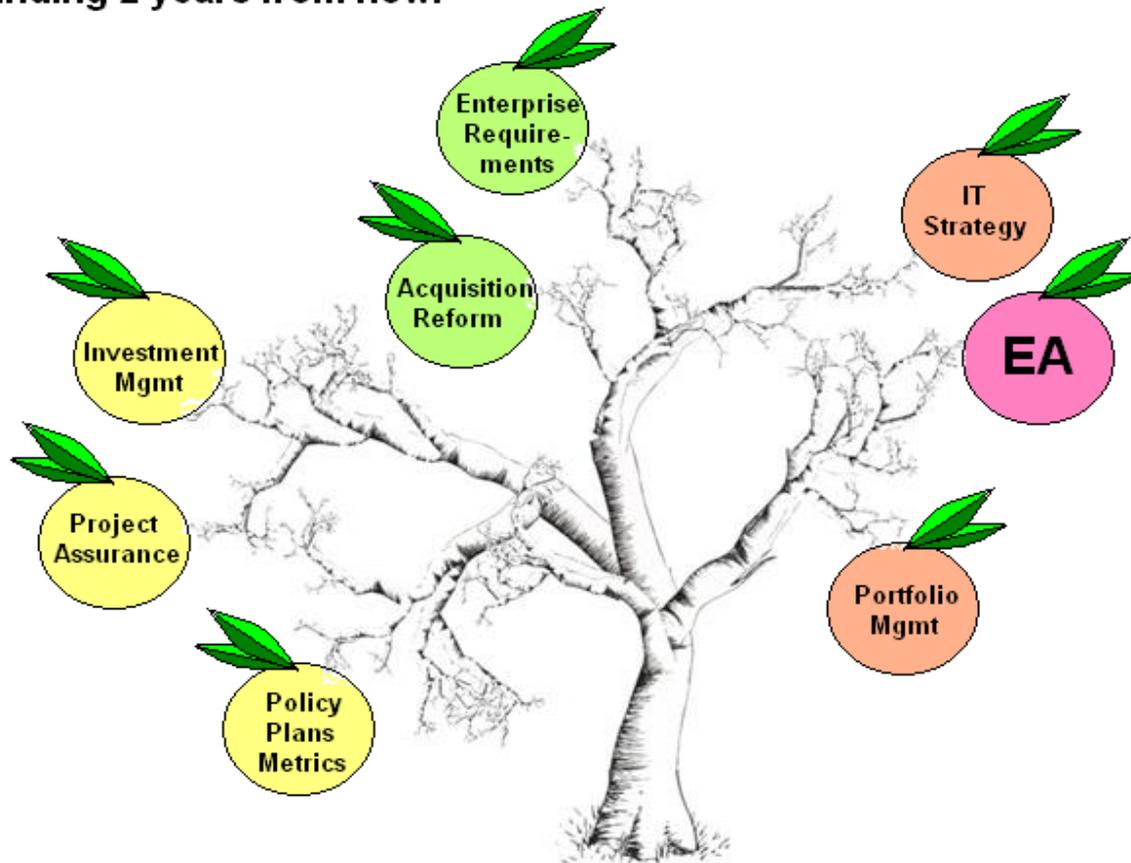


*Based on “7 Habits of Highly Effective People” by Stephen Covey

Q1: What EA policies help support integration with “other” agency management processes?

Lesson learned: Advance planning for EA and *all its context as investments*

Invest early. Build costs for the enterprise planning functions that support selection, control and evaluation into your investment proposals. Establish a policy to set "planning reserve" as a %age above DM&E requirements. You must plant the seeds now if you are to reap the funding 2 years from now.



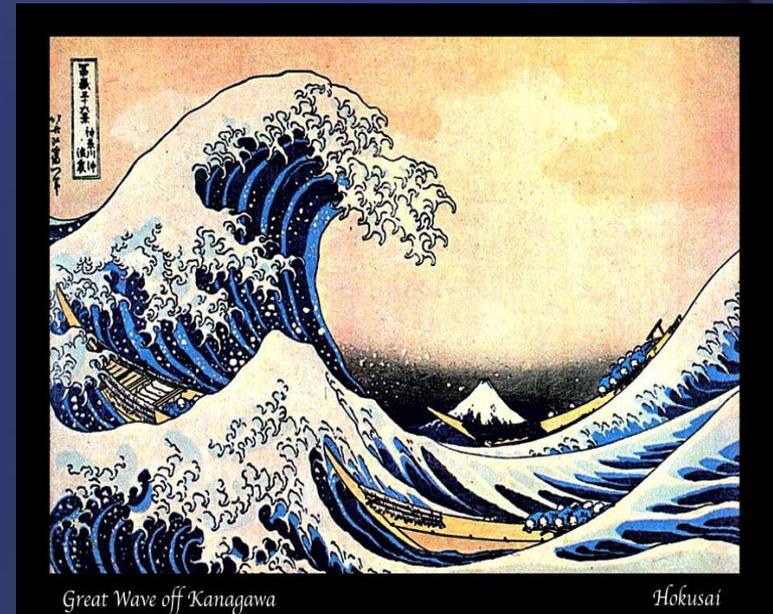
"Enterprise Planting"

Q1: What EA policies help support integration with “other” agency management processes?

Case study: Risks of not using EA to plan agency investments

The IT support environment can be hit with huge staffing, operations and maintenance costs as a result of planned and unplanned projects

- Typically, O&M is funded and planned at 20-23% per year
- Hundreds of IT systems, networks, applications and databases already in operation
- Tens of projects in development (some deliver in FY07 and some in FY08 and some delivered in FY06) – inconsistent O&M allocations
- 45 enhancement requests planned for FY08
- Life Cycle Management and IT Governance is mitigating the problem with Lifecycle cost methodology – but enforcement challenges remain
- Resource allocation to competing priorities

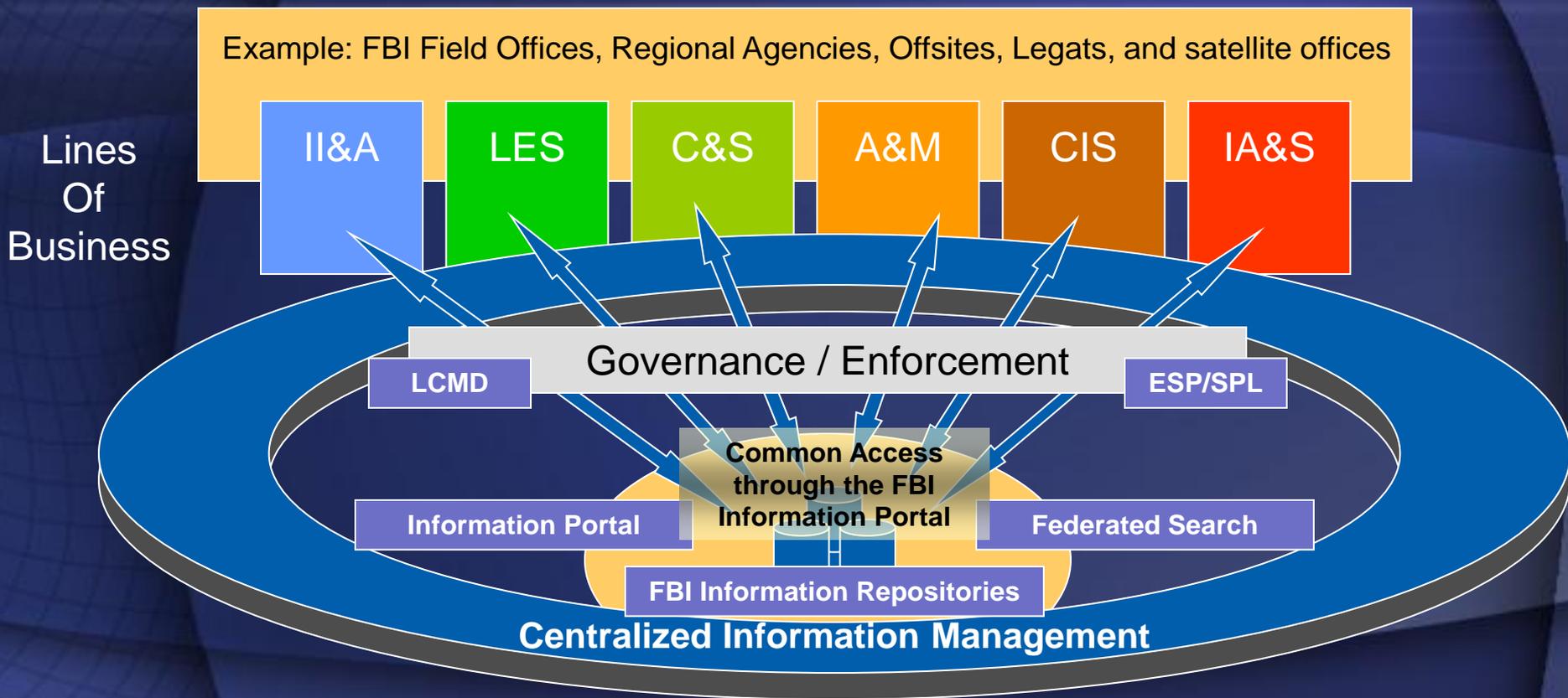


“The O&M Tsunami”

Additional Lifecycle Planning Factor (30<x<50%) should be included for all DME Projects

Q2: How does one establish collaborative EA governance involving mission programs in activities such as the unification of IT standards and services?

*2nd habit of highly effective architects: *“Begin with the end in mind”*



- LCMD – Lifecycle Management Directive
- ESP – Enterprise Standards Profile
- SPL – Standard Products List

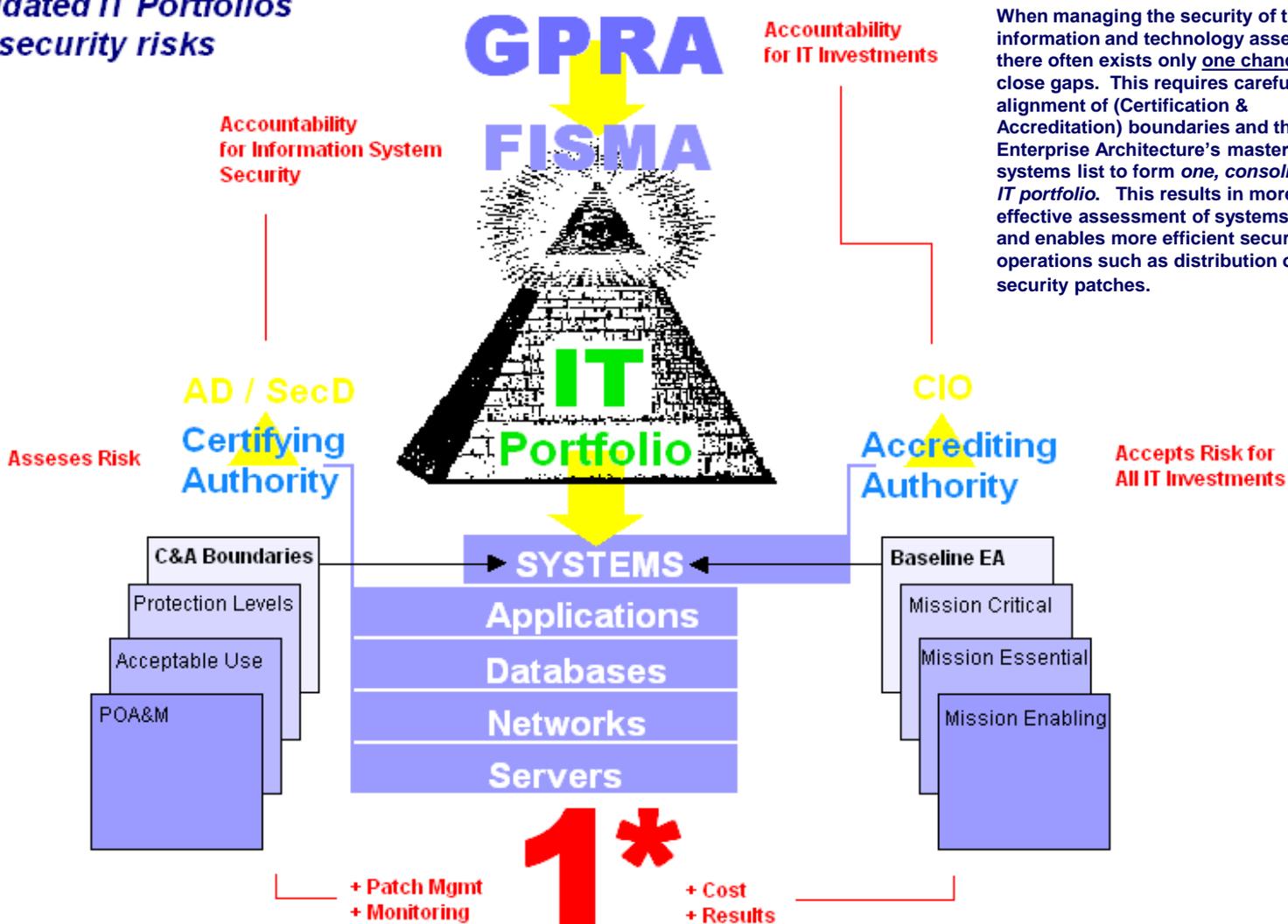
**Centralized Control & Access
of Information supporting
Decentralized Operations**

*Based on “7 Habits of Highly Effective People” by Stephen Covey

Q2: How does one establish collaborative EA governance involving mission programs in activities such as the unification of IT standards and services?

Best practice: EA Consolidated Systems Portfolio = Improved FISMA Performance

Consolidated IT Portfolios reduce security risks



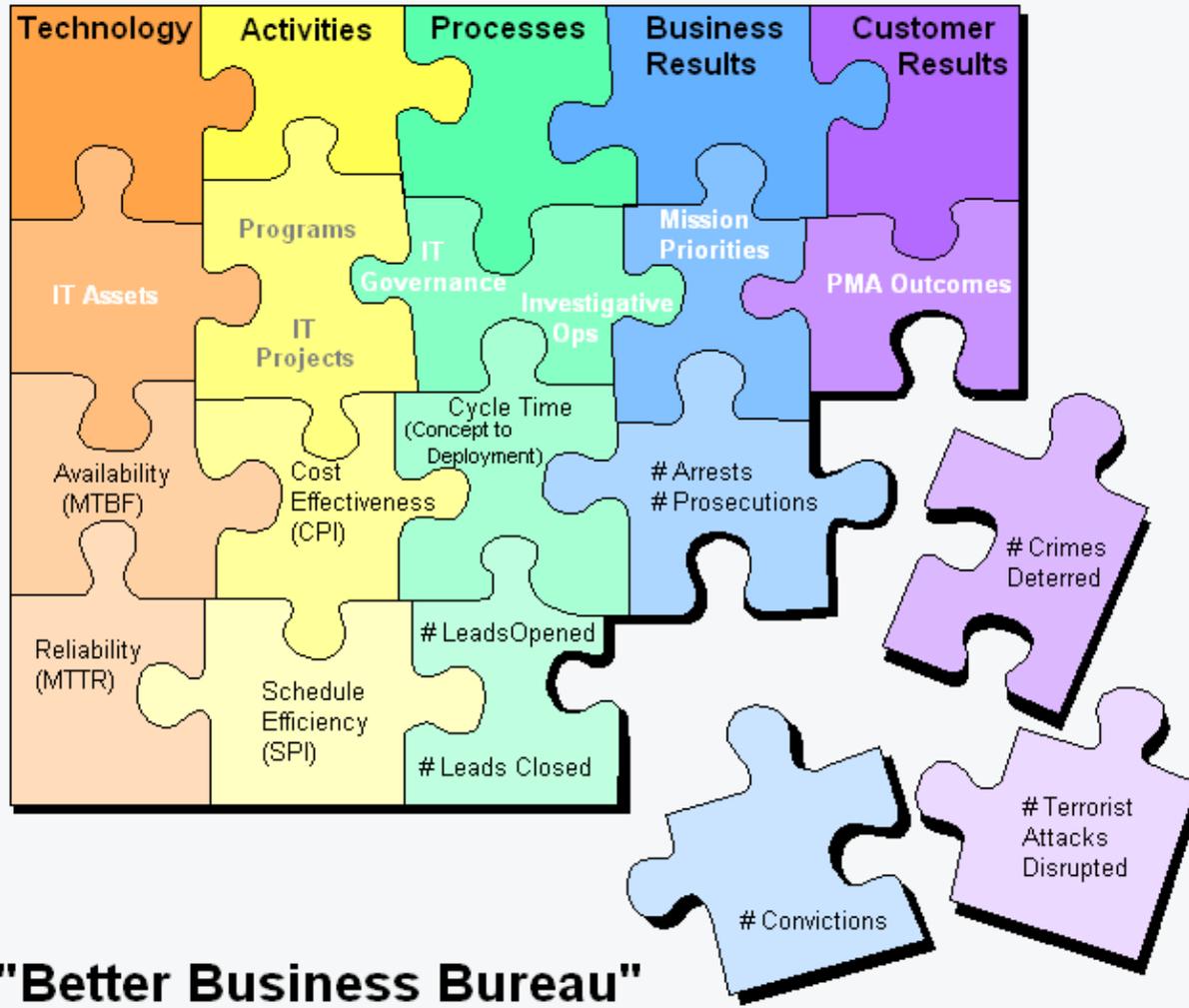
When managing the security of the FBI's information and technology assets, there often exists only one chance to close gaps. This requires careful alignment of (Certification & Accreditation) boundaries and the Enterprise Architecture's master systems list to form *one, consolidated, IT portfolio*. This results in more effective assessment of systems' risks and enables more efficient security operations such as distribution of security patches.

"When Success is Dependent on One Carefully Aimed Shot"

Q3: How can architects reach out to internal stakeholders and help them understand and gain value from their agency EA?

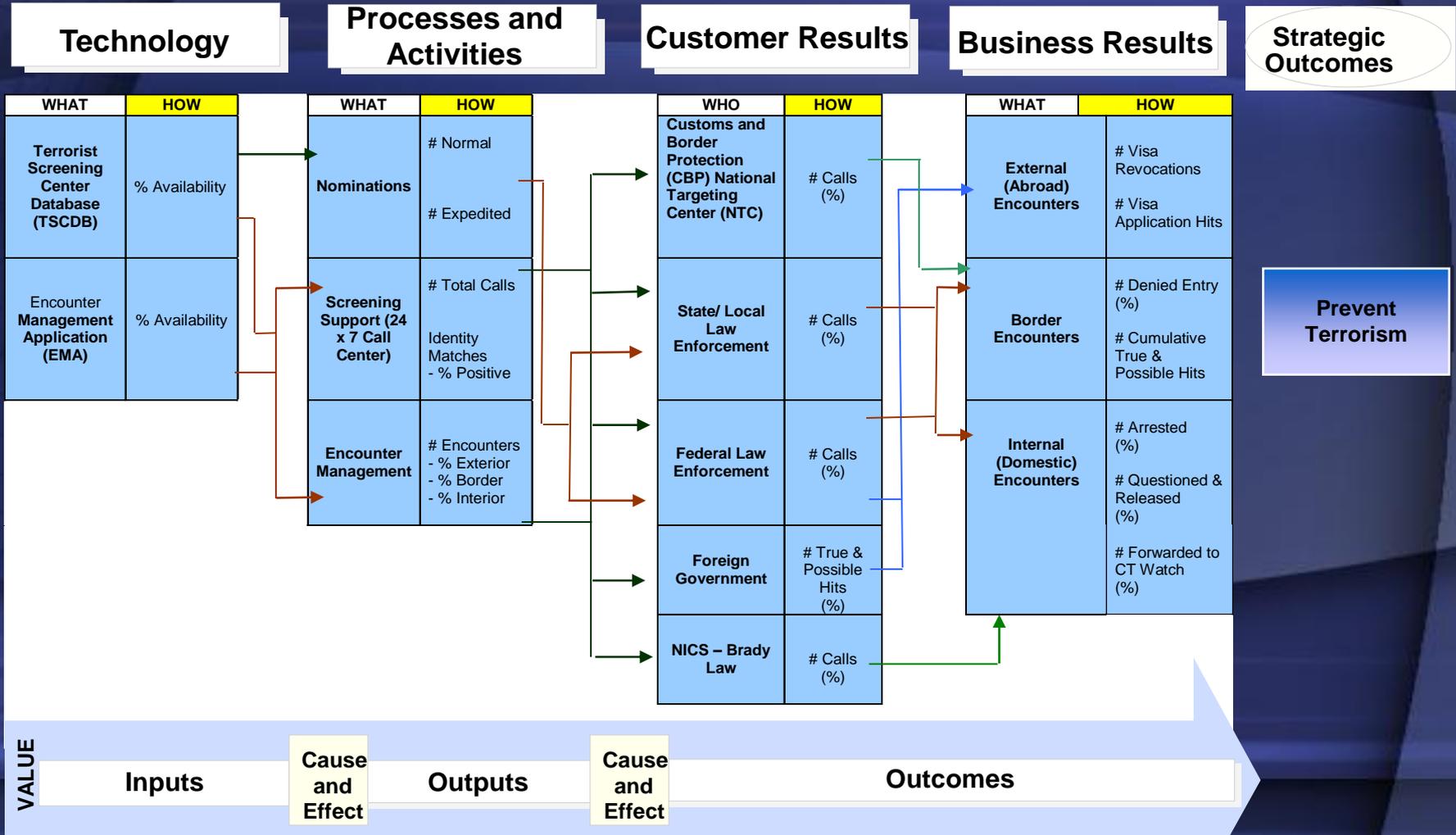
*3rd habit of highly effective architects: *“Think win-win”*

EA “Line of Sight” helps customers build better business cases and increases the likelihood of funding for their requirements --->



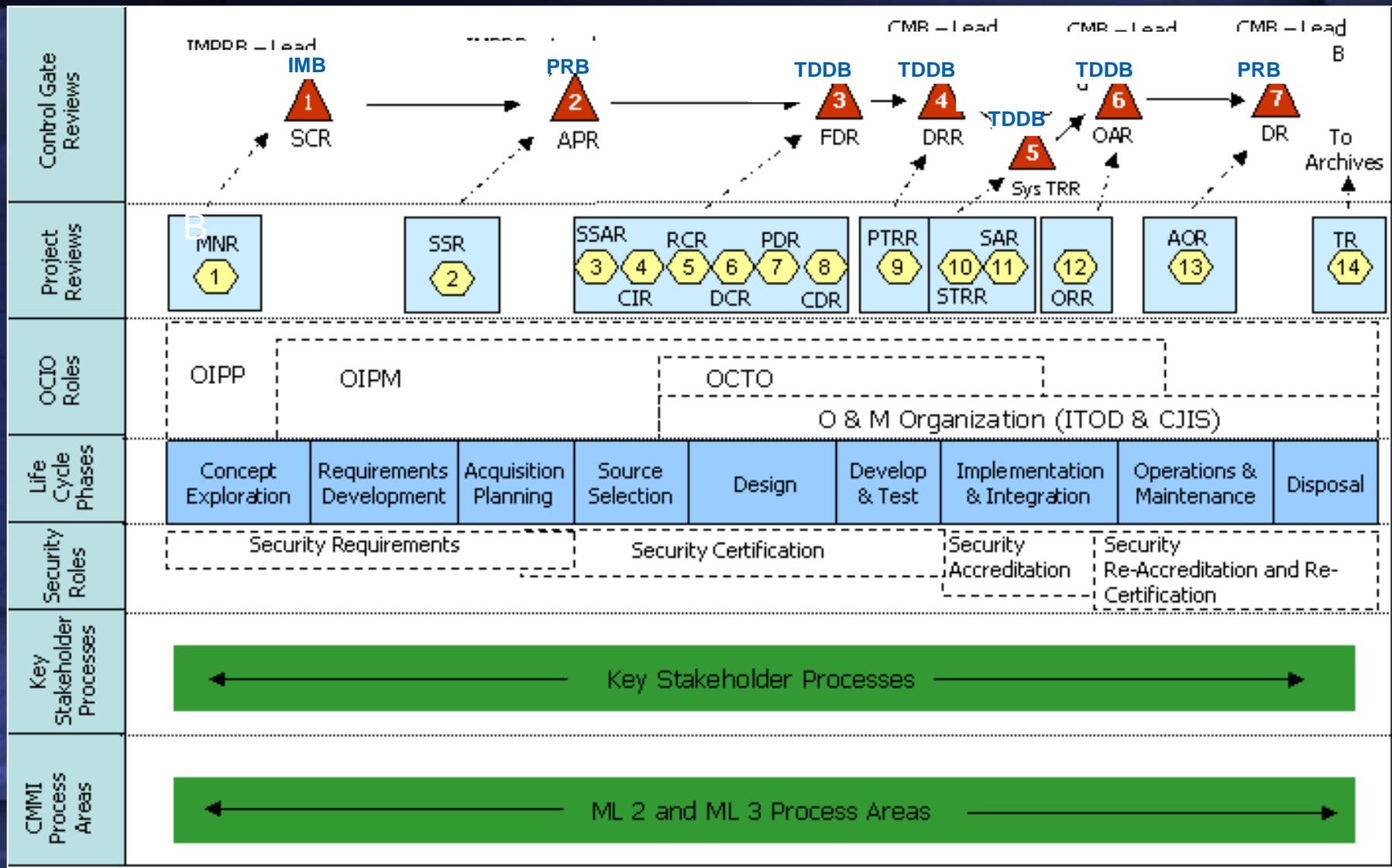
Q3: How can architects reach out to internal stakeholders and help them understand and gain value from their agency EA?

Best practice: Terrorist Screening Center (TSC) "Line of Sight"



Q4: What are the EA decisions and how does one make them key milestones in the Systems (solutions) Development Lifecycle (SDLC)?

*4thHabit of highly effective architects: *“Put first things first”*

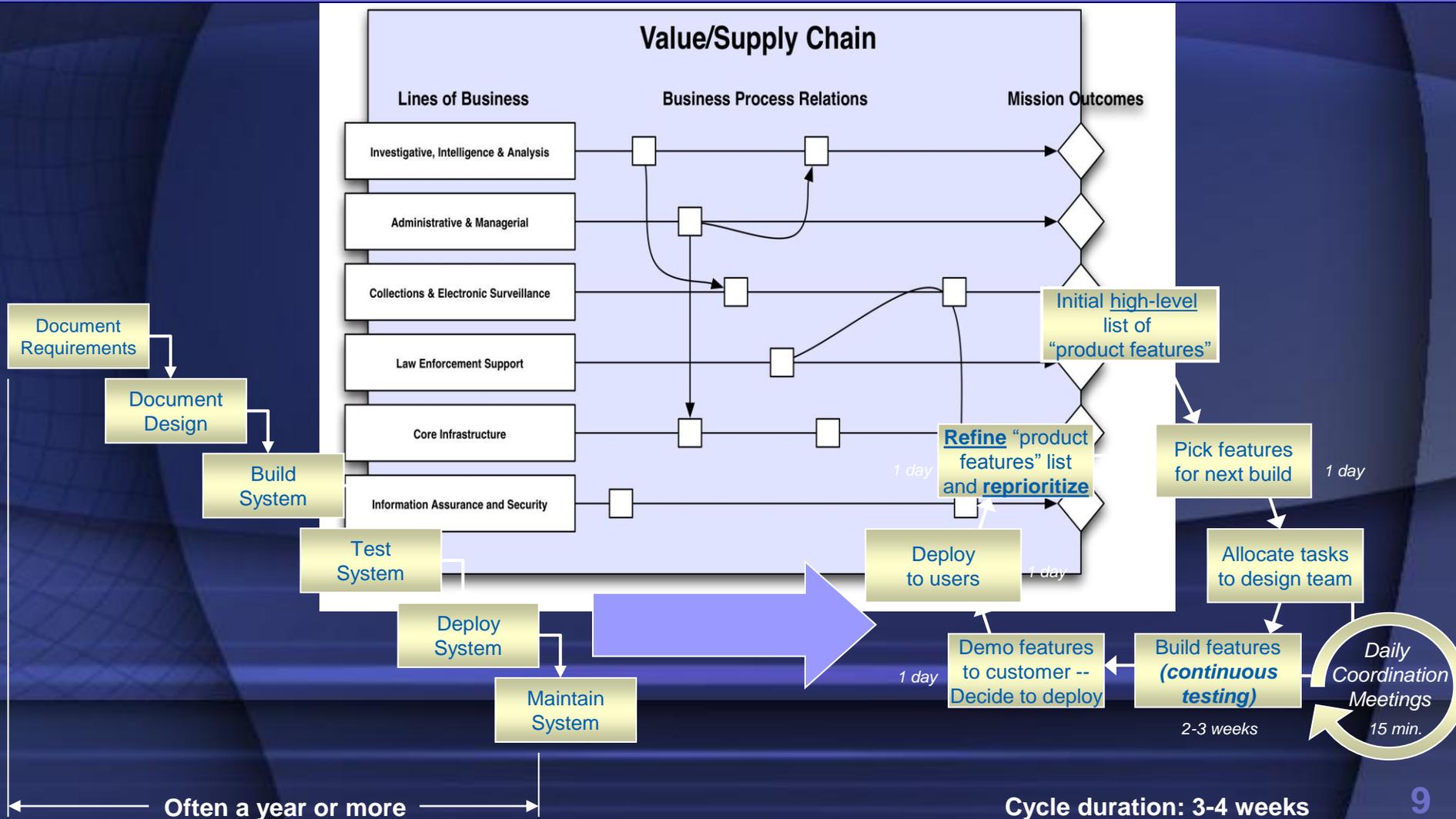


*Based on “7 Habits of Highly Effective People” by Stephen Covey

Q4: What are the EA decisions and how does one make them key milestones in the Systems (solutions) Development Lifecycle (SDLC)?

Case study: Example: FBI Evolution to “Incremental Development Cycle”

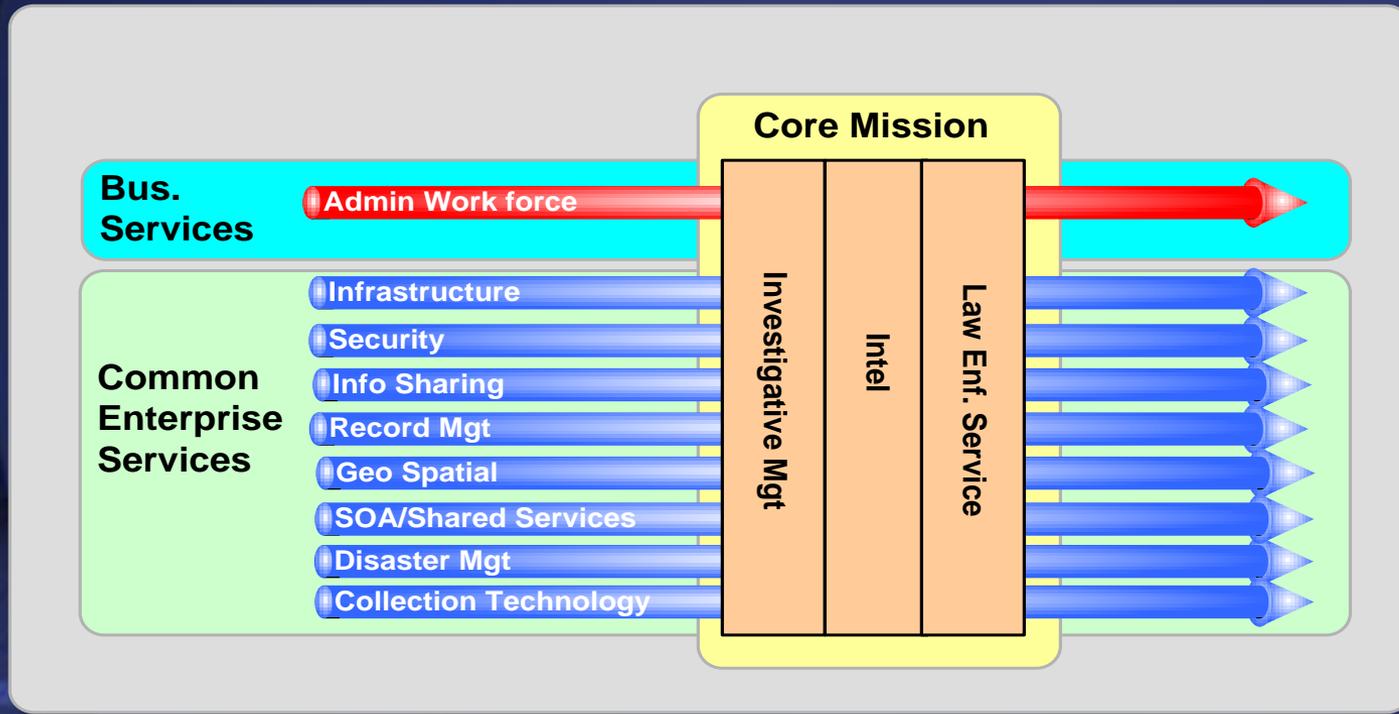
EA helps business stakeholders eliminate inefficient, low-value, resource-intensive business processes, and reduce the scope of technology activities necessary to implement the mission



Q5: What are best practices (within EA programs and in mission decision-making) regarding EA Governance?

*5th Habit of Highly Effective Architects: **“Seek first to understand”**

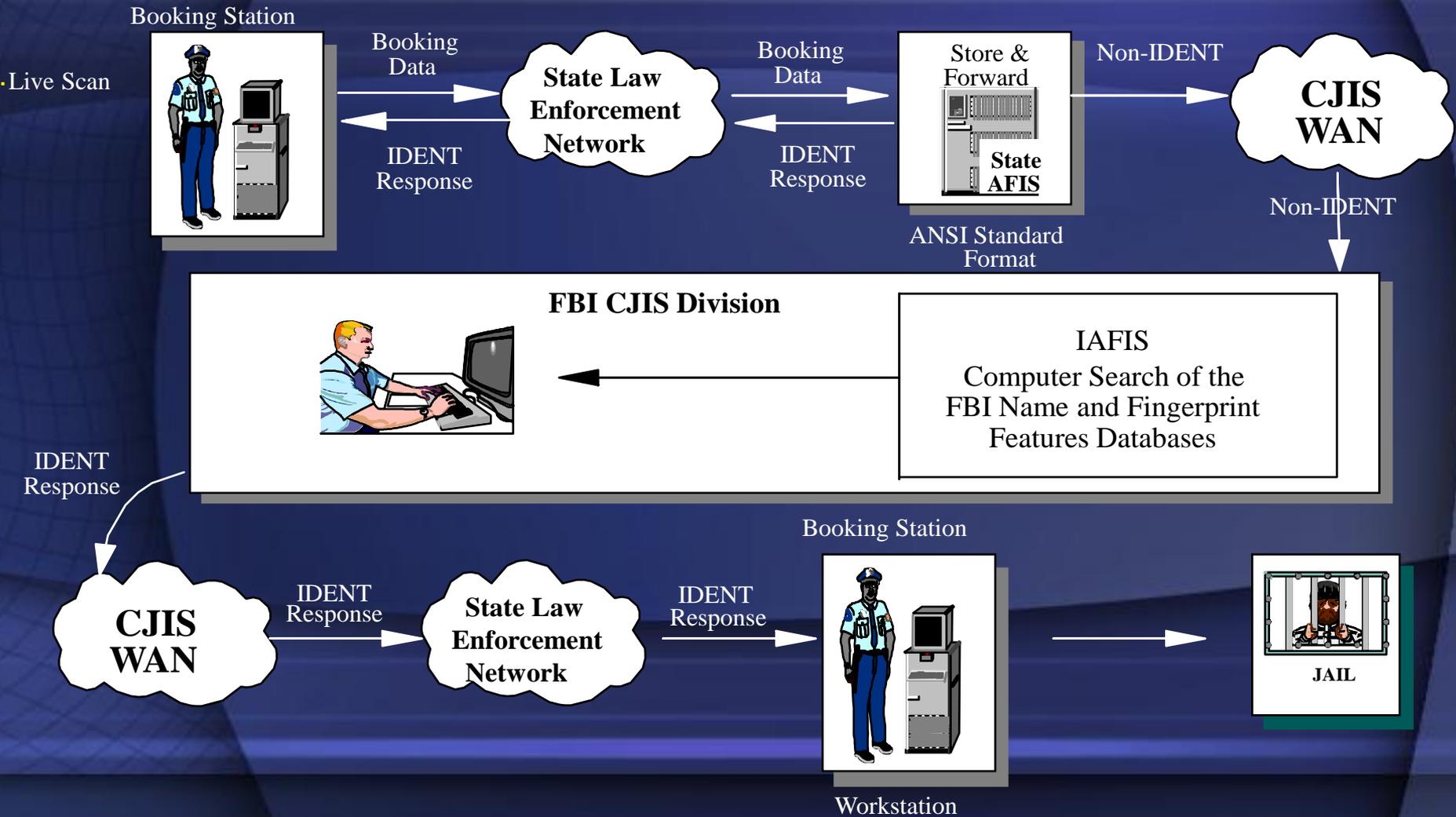
An example: FBI’s EA Segments are individual building blocks describing the core mission, capabilities (business services) or common/shared services that comprise the FBI’s Enterprise Architecture.



The FBI is moving towards a capabilities driven, service-oriented architecture

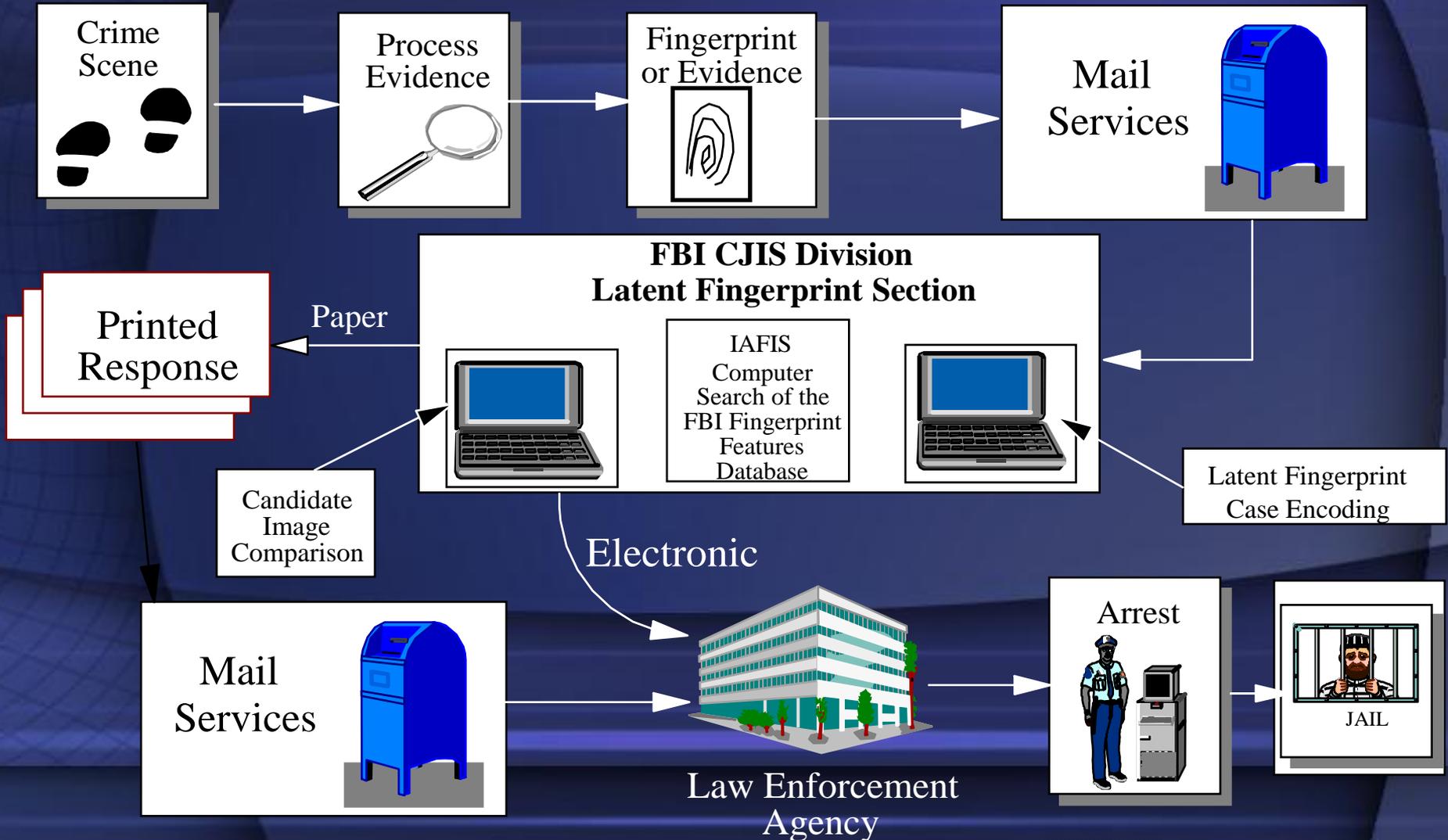
Q5: What are best practices (within EA programs and in mission decision-making) regarding EA Governance?

Case study: IAFIS Core Service -- CJIS Electronic Ten-Print Submission (Criminal)



Q5: What are best practices (within EA programs and in mission decision-making) regarding EA Governance?

Case study: IAFIS Core Service – Latent Fingerprint Submission



Q6: Why leverage EA to identify and integrate “touch points” for data exchange services, inter- and intra-agency, within lines of business?

*6th habit of highly effective architects: **“Synergize”**

Target Architecture for the FBI’s Analytical Environment

DISSEMINATION



Information Portal

KNOWLEDGE

Smart Push	Alerting	Collaboration
Geospatial	Linking	Enterprise Search

INFORMATION

Federated Search



Legacy

PROCESSING



Case data



Commercial/
Open Source



Terrorists’
Computers



FAX, Email,
Chat, Voice



Multimedia,
Tips, Messaging,
Alerts

Q6: Why leverage EA to identify and integrate “touch points” for data exchange services, inter- and intra-agency, within lines of business?

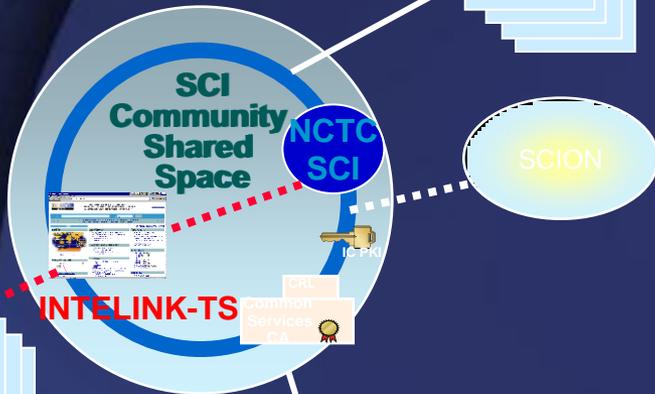
Case Study: Reducing the complexity of intra- and inter-agency communications

Example: FBI

24x7x365 EOC
24x7x365 ESOC

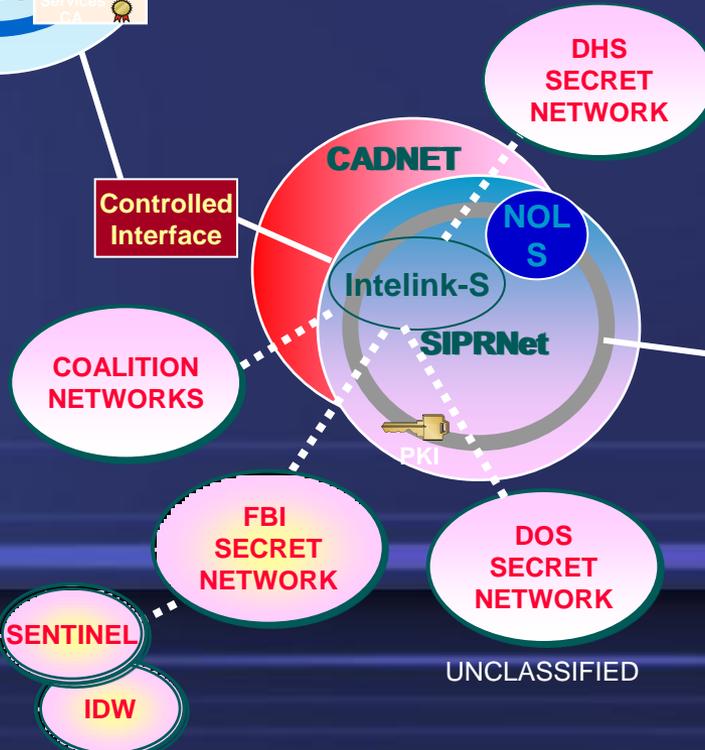
FBI SCI Networks

IC Agencies

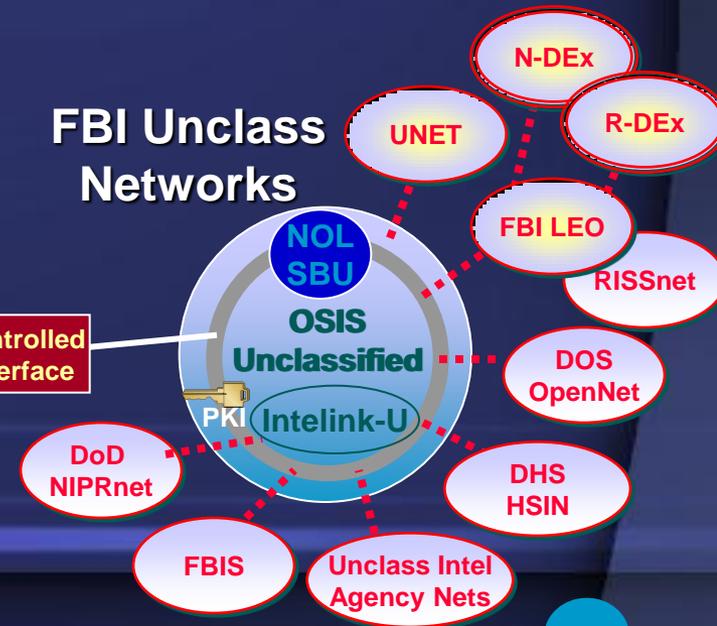


Non-Title
50 IC
Agencies

FBI Collateral Networks

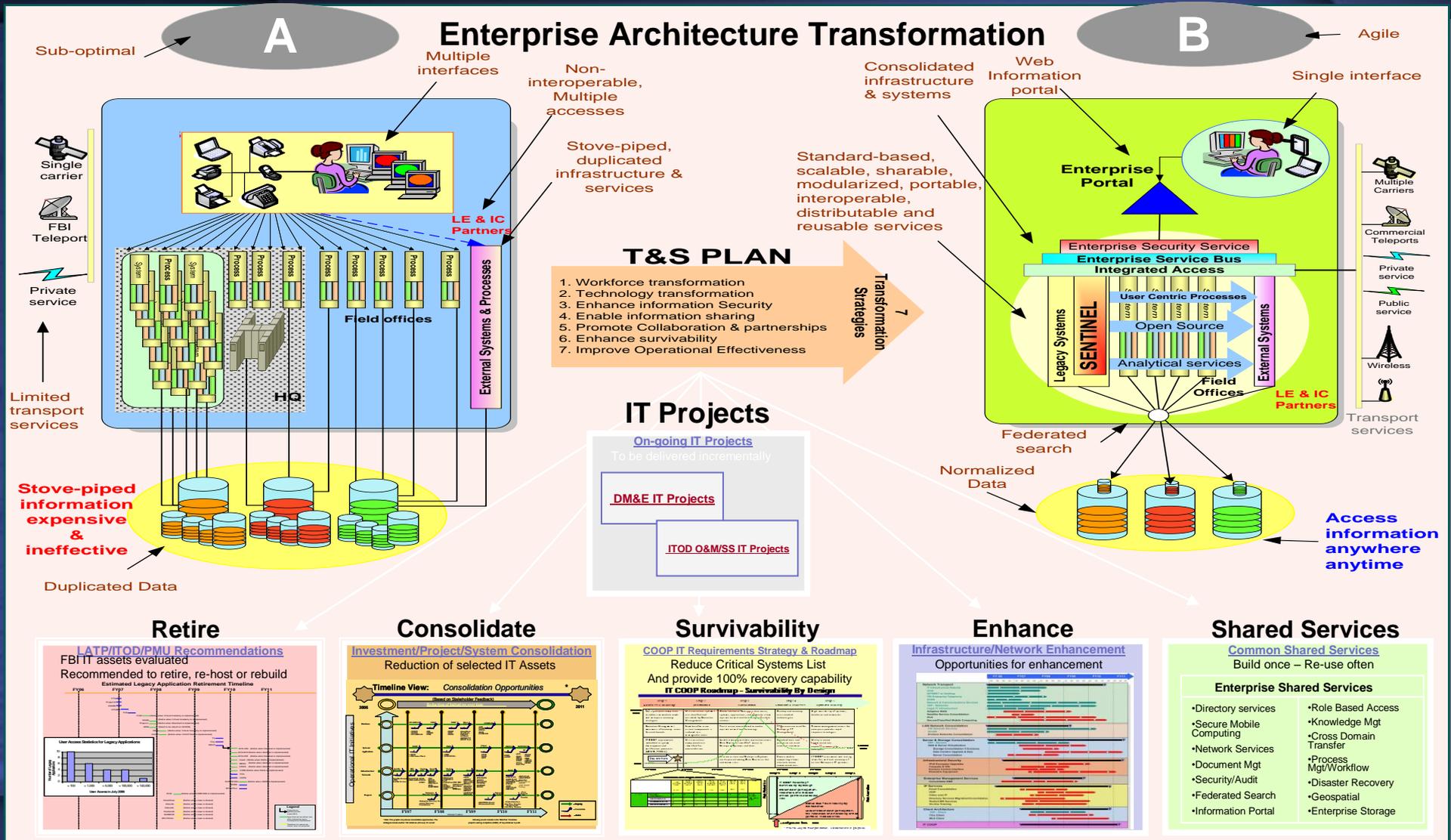


FBI Unclass Networks



Q7: What are best practices for using EA to streamline your investment portfolio, reduce duplications and drive mission alignment of IT and other investments?

*7th habit of highly effective architects: **“Sharpen the Saw”**



UNCLASSIFIED

Q7: What are best practices for using EA to streamline your investment portfolio, reduce duplications and drive mission alignment of IT and other investments?

Case study: Putting it all together / EA as a means of achieving business value

